

Application No. 09/432,927  
Amendment dated January 11, 2006  
Reply to Office Action of August 11, 2005

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently Amended) An image processing ~~system apparatus~~ comprising:  
synchronous type processing means for carrying out a first image process on image data that is the subject of processing;  
asynchronous type processing means for carrying out a second image process on ~~image data of a predetermined~~ a region of said image data that is the subject of processing;  
and  
synthesize means for synthesizing an output of said synchronous type processing means and an output of said asynchronous type processing means to form one image data.
2. (Currently Amended) The image processing ~~system apparatus~~ according to claim 1, wherein said synthesize means comprises:  
a memory in which an output of said synchronous type processing means is stored,  
and  
replacement means for replacing a portion of an output of said synchronous type processing means stored in said memory with an output of said asynchronous type processing means.
3. (Currently Amended) The image processing ~~system apparatus~~ according to claim 2, further comprising control means for controlling replacement timing by said replacement means by detecting status of an output of said synchronous type processing means stored in said memory.

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4. (Currently Amended) An image processing system apparatus comprising:  
a first image processor formed of a hardware circuit, and carrying out a first image process on input image data;

a second image processor carrying out a second image process on a fragment of said input image data according to a program of predetermined software; and

a memory in which image data subjected to said first image process and image data subjected to said second image process are synthesized and stored.

5. (Currently Amended) The image processing system apparatus according to claim 4, wherein data of said memory in which image data subjected to the first image process is stored is overwritten by image data subjected to the second image process.

6. (Currently Amended) The image processing system apparatus according to claim 5, wherein said second image processor detects a write timing of said image data subjected to the first image process into said memory to control a write timing into said memory.

7. (Currently Amended) The image processing system apparatus according to claim 4, wherein said software is rewritable.

8. (Currently Amended) The image processing system apparatus according to claim 4, wherein said second image processor detects a region on which the second image process is to be carried out by scanning input image data

9. (Previously Presented) An image processing method comprising the steps of:

carrying out a first image process on input image data through a hardware circuit;  
carrying out a second image process on a fragment of the input image data through software; and

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synthesizing image data subjected to the first image process with image data  
subjected to the second image process,  
wherein sequence of said first and second image processes is arbitrary.

10. (Original) The image processing method according to claim 9, wherein  
said step of carrying out the second image process includes the step of detecting a region  
on which the second image process is to be carried out by scanning input image data, and  
carrying out the second image process on the detected region.

11. (Currently Amended) An image processing ~~system apparatus~~ comprising:  
a synchronous-type data processing device for carrying out a first image process on  
image data that is the subject of processing;  
an asynchronous-type data processor for carrying out a second image process on  
~~image data of a predetermined~~ region of said image data that is the subject of processing;  
and  
a data synthesizing device for synthesizing an output of said synchronous-type  
processing device and an output of said asynchronous-type processor to thereby form one  
image data.

12. (Currently Amended) The image processing ~~system apparatus~~ according to  
claim 11, wherein said synthesizing device includes:  
a memory for storing and output of said synchronous-type processing device, and  
wherein said synthesizing device replaces a portion of an output of said  
synchronous-type processing device stored in said memory with an output of said  
asynchronous-type processor.

13. (Currently Amended) The image processing ~~system apparatus~~ according to  
claim 12, further comprising a controller for controlling a replacement timing in said  
synthesizing device by detecting a status of an output of said synchronous-type processing  
device which is stored in said memory.